

Publications

Peer-Reviewed

- D. Lyles, T.S. Rosenstock, and A. Hastings, "Plant reproduction and environmental noise: How do plants do it?", *Journal of Theoretical Biology* (2015) 371: 137-144.
- Todd S. Rosenstock, Alan Hastings, Walter D. Koenig, Danielle J. Lyles, and Patrick H. Brown. "Testing Moran's Theorem in an Agroecosystem." *Oikos* 120.9 (2011) 1434-1440.
- D. Lyles, J. H. Tien, D.P. McCobb and M. L. Zeeman. "Pituitary Network Connectivity as a Mechanism for the Luteinising Hormone Surge." *Journal of Neuroendocrinology* 22 (2010) 1267-1278.
- D. Lyles, T. S. Rosenstock, A. Hastings, and P. H. Brown. "The Role of Large Environmental Noise in Masting: General Model and Example from Pistachio Trees." *Journal of Theoretical Biology* 259 (2009) 701-713.
- J.H. Tien, D. Lyles, and M.L. Zeeman. "A potential role of modulating inositol 1,4,5-triphosphate receptor desensitization and recovery rates in regulating ovulation." *Journal of Theoretical Biology* 232 (2005) 105-117.

Conference Proceedings

K.M. Massaro, E.F. Orta, D. Lyles, D.A. Sass, M.A. Sanchez & C. Stroud. 2014. Quantitative Literacy: Analysis of a Q Course. In *JSM Proceedings*, Section on Statistical Education. Alexandria VA: American Statistical Association. 3358-3365.

Technical Reports

Ryan Hernandez, Danielle Lyles, Dan Rubin, & Tom Voden. "A Model of Beta-cell Mass, Insulin, Glucose, and Receptor Dynamics with Applications to Diabetes." *Cornell University Biometrics Technical Reports* (2001)

Doctoral Dissertation

D. Lyles. "BK Channel Properties: Consequences for Cellular Excitability - Modeling, Simulation, and Experiment" *Cornell University PhD Thesis* (2008).

Undergraduate Thesis

D. Lyles. "Modeling Follicular Growth and Development in the Human Menstrual Cycle." *The University of Texas at San Antonio Undergraduate Thesis* (2000).